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May 23, 2001

DERWENT-ACC-NO: 2000-195321

DERWENT-WEEK: 200130

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TITLE: Novel human UDP-glucuronosyltransferase sequence, polymorphisms for genotyping individuals to predict rate of metabolism of substrates and for identifying potential drug interactions

INVENTOR: GALVIN, M; MILLER, A ; PENNY, L ; RIEDY, M

PATENT-ASSIGNEE:

ASSIGNEE

CODE

AXYS PHARM INC

AXYSN

PRIORITY-DATA: 1998US-0094391 (July 28, 1998)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|-----------------|-------------------|----------|-------|------------|
| EP 1100968 A1 | May 23, 2001 | E | 000 | C12Q001/68 |
| WO 200006776 A1 | February 10, 2000 | E | 072 | C12Q001/68 |
| AU 9952256 A | February 21, 2000 | N/A | 000 | C12Q001/68 |

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|----------------|---------------|----------------|------------|
| EP 1100968A1 | July 22, 1999 | 1999EP-0937416 | N/A |
| EP 1100968A1 | July 22, 1999 | 1999WO-US16675 | N/A |
| EP 1100968A1 | | WO 200006776 | Based on |
| WO 200006776A1 | July 22, 1999 | 1999WO-US16675 | N/A |
| AU 9952256A | July 22, 1999 | 1999AU-0052256 | N/A |
| AU 9952256A | | WO 200006776 | Based on |

INT-CL (IPC): C12Q 1/68

ABSTRACTED-PUB-NO: WO 200006776A

BASIC-ABSTRACT:

NOVELTY - New isolated non-chromosomal nucleic acid molecules (I) of 57 sequences, all fully defined in the specification, comprising human UDP-glucuronosyltransferase (UGT2B) sequence polymorphism, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a nucleic acid probe (P) for detecting UGT2B locus polymorphism comprising

(I);

(2) an array oligonucleotides comprising 2 or more (P); and

(3) a method for detecting a polymorphism in a UGT2B metabolism of a substrate, in an individual, comprising analyzing the genome of the individual for the presence of (I), which indicates an alteration of the UGT2B expression or activity.

USE - (P) is used for detecting polymorphism in an individual (claimed). (I) is used in screening assays and for genotyping individuals, used to predict their rate of metabolism of UGT2B substrates, potential drug-drug interactions and adverse side effects. The polymorphisms can be used as single nucleotide polymorphism for detecting genetic linkage related to phenotypic variation in activity or expression of UGT2B protein. (I) is also used for generating genetically modified non-human animals and for obtaining site specific gene modification in cell lines.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: NOVEL HUMAN SEQUENCE POLYMORPH INDIVIDUAL PREDICT RATE METABOLISM
SUBSTRATE IDENTIFY POTENTIAL DRUG INTERACT

DERWENT-CLASS: B04 D16

CPI-CODES: B04-E02E; B04-E05; B11-C08E4; B12-K04A3; D05-H09; D05-H12B1; D05-H12D1;
D05-H18A;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code

M423 M710 M750 M781 M905 N102 P831 Q233 Q505

Specific Compounds

A00NSA A00NSD A00NSN

Chemical Indexing M6 *02*

Fragmentation Code

M905 P831 Q233 Q505 R515 R521 R627 R639

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-060611